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(54) **MULTIMODE RADIO DEVICE**

(57) Abstract:

PROBLEM TO BE SOLVED: To miniaturize a device which is light in weight, and low in power consumption by using an orthogonal modulator and a power control amplifier in common, providing a mode switch at the output of the power control amplifier, and supplying a signal to a transmission system circuit of different mode.

SOLUTION: In broadband CDMA mode, a receive signal is inputted from an external antenna 8. A quadrature demodulator 15 demodulates it into a base-band signal, which is supplied to a base-band signal process part. The base band transmit signal from the base-band signal process part is inputted to a quadrature modulator 33 by mode switches 34 and 39 and converted to a transmission intermediate frequency, and the signal is sent to a broadband CDMA mode transmitting circuit 29 through a transmit power control amplifier 32 and a mode switch 30. In PDC mode, the base-band transmit signal from the base-band signal process part is sent to a PDC mode transmitting circuit 36

through a common transmitting circuit 40 comprising the mode switches 34 and 39 the quadrature modulator 33, and transmit power amplifier 32 as well as the broadband CDMA mode.

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